Filed July 16, 1931

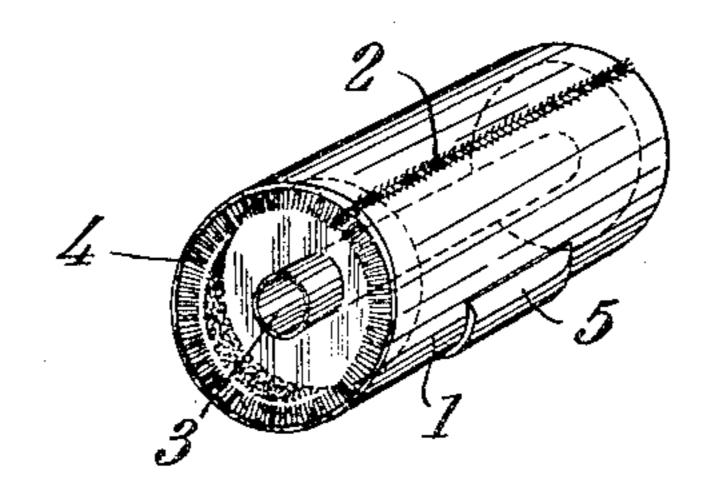
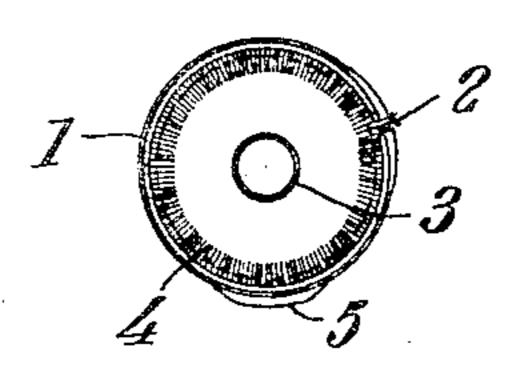


Fig. 2



Inventor:

Kurt Hipke,

Attorney

Philip S. Hopkins.

UNITED STATES PATENT OFFICE

KURT HIPKE, OF DESSAU IN ANHALT, GERMANY, ASSIGNOR TO AGFA ANSCO CORPO-RATION, OF BINGHAMTON, NEW YORK, A CORPORATION OF NEW YORK

EVOLUCITING LIDIT ROLL EROW THE ENTRY OF LIGHT

Application filed July 16, 1931, Serial No. 551,225, and in Germany July 23, 1930.

The present invention relates to a new de- now be dispensed with. Furthermore the

from the entry of light.

5 in daylight consist of a spool, having flanges aid of which pictures are taken on cinemato- 55 at both ends, on which a photographic film paper strip in such a manner that the outer- holders which are otherwise necessary. If in most coils of the roll are exclusively formed this type of apparatus the spool on which the 10 by the paper. By the flanges of the spool exposed film is wound up, is likewise provided 60 and the windings of the protective paper strip with a casing of the type described above, the the light sensitive layer is, with this mode burdensome rewinding of the film band on the of winding the film, protected from the entry primary spool may likewise be dispensed of light. Experience has shown, however, with. The outer form of the light tight cas-15 that under certain circumstances, for instance, ing must be adapted to the form of the holders 65 if the flanges of the spool are not exactly generally used, whereas the inner space of the parallel to each other or if a pressure is ex- casing suits with the diameter of the parercized on the film roll, light can penetrate ticular film roll in question. laterally into the space left between the 20 flanges and the edges of the protective paper strip, thus fogging the layer.

completely protected from the entry of light resin or the like. by means of an elastic metal casing, being The invention is illustrated by the accom-25 open at both sides and having a longitudinal panying drawing in which slit extending from one end to the other. The Figure 1 is a perspective view of a casing inner surface of this metal casing is lined in which a film spool is inserted and 30 that of the spool of the film roll, its inner erence characters being used to indicate the 80 diameter being equal to the diameter of the same parts. flanges of the spool. During use the casing In these figures 1 is an elastic sheet metal

By the casing according to this invention worth mentioning occurs. photographic as well as cinematographic film What I claim is: rolls can be protected from light. The 1. A device for protecting film rolls wound

impossible.

vice for protecting film rolls wound on spools casing may be utilized with the film rolls for apparatus of the type known under the trade The known film rolls which may be loaded mark Memo camera or Leica camera, with the graphic film bands. In this case the new destrip is wound together with a protective vice permits of dispensing with special film

In general the light tight casing is made from sheet metal, but may be made, if desired, 70 from any other suitable material, for instance According to this invention the film roll is caoutchouc, cellulose derivatives, artificial

with velvet or similar material. The length Figures 2, 3 and 4 illustrate different kinds of the casing corresponds approximately to of the casing in cross section; the same ref-

is fitted over the film roll in such a way that case open at both ends and provided with a the edges of the two flanges are covered by it. slit 2 through which the film band is guided 35 The outer end of the film strip or of the guide which is wound up on the spool 3. The case 85 paper strip, which is attached to the film 1 and the slit 2 are lined with a strip of velstrip, is led outwards through the slit in the vet 4 which effects a light-tight closure with casing. As the casing remains on the spool the flanges of the spool, while allowing a bearing the photographic film also in the frictionless turning of the latter. 5 indi-40 photographic apparatus, and as the empty cates a nose or similar stopping means which 90 spool on which the exposed film is wound is avoids turning of the case 1 in the apparatus. likewise inserted in such a casing which need The light tightness at the flanges of the not be removed until the film is developed in spool is effected by slightly impressing the the dark room, any fogging of the margins edges of the flanges into the elastic velvet. 45 of the light sensitive film strip is rendered Inasmuch as only the flanges of the spool are 95 in intimate contact with the velvet no friction

50 hitherto necessary protective paper strip can on spools provided with flanges from the en-

try of light comprising a cylindrical open sided casing made of an elastic material and provided with a longitudinal slit extending from one end of the casing to the other, said casing and said slit being lined on the interior surface with velvet or a similar material, said casing being somewhat longer than the distance of the flanges of the spool and having approximately the same diameter as the flanges of the spool so that the flanges of the spool inserted in the casing ensure with

the velvet light-tight closure.

2. A device for protecting film rolls wound on spools provided with flanges from the entry of light comprising a cylindrical open sided casing made of sheet metal and provided with a longitudinal slit extending from one end of the casing to the other, said casing and said slit being lined on the interior surface with velvet or a similar material, said casing being somewhat longer than the distance of the flanges of the spool and having approximately the same diameter as the flanges of the spool inserted in the casing ensure with the velvet a light-tight closure.

In testimony whereof I affix my signature.

KURT HIPKE.

30

35

40

45

50

55

60